Miele

Operating and installation instructions

Refrigerator with Dynamic cooling
K 12820 SD edt

To avoid the risk of accidents or damage to the appliance, it is **essential** to read these instructions before it is installed and used for the first time.

en - GB

M.-Nr. 07 753 450

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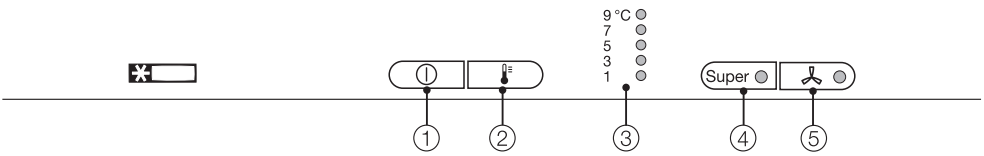
Guide to the appliance



① On/Off button

② Temperature selector button

③ Temperature display

④ Super cool button and indicator light

⑤ Dynamic cooling button and indicator light

① Dynamic cooling fan

② Butter and cheese compartment

③ Egg tray

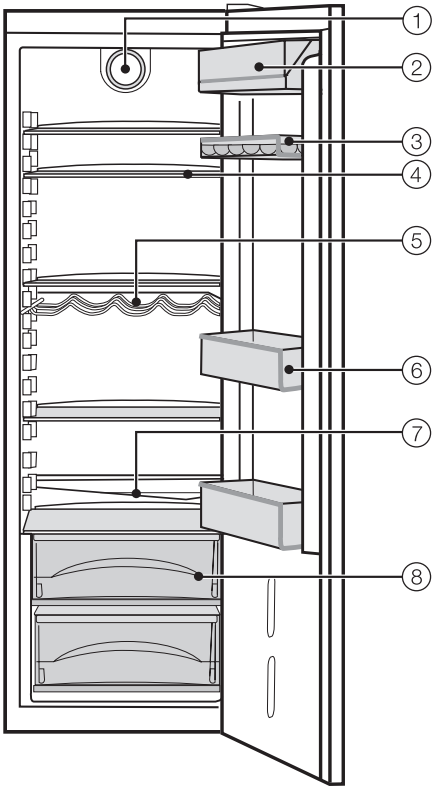
④ Adjustable shelves

⑤ Bottle rack

⑥ Bottle shelf

⑦ Condensate channel and drain hole

⑧ Fruit and vegetable containers



Caring for the environment

Disposal of the packing material

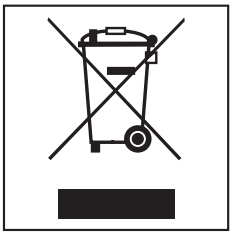
The transport and protective packing has been selected from materials which are environmentally friendly for disposal, and can normally be recycled.

Ensure that any plastic wrappings, bags etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation!

Rather than just throwing these materials away, please ensure that they are recycled.

Disposal of your old appliance

Electrical and electronic appliances often contain materials which, if handled or disposed of incorrectly, could be potentially hazardous to human health and to the environment. They are, however, essential for the correct functioning of your appliance. Please do not therefore dispose of it with your household waste.



Please dispose of it at your local community waste collection / recycling centre or contact your dealer for advice. Ensure that it presents no danger to children while being stored for disposal.

It should be unplugged or disconnected from the mains electricity supply by a competent person.

Take care not to damage the pipework at the back of it before or during transportation to an authorised collection depot.
In this way, refrigerant in the pipework and oil in the compressor will be contained, and will not leak out into the environment.

This appliance complies with all relevant local and national safety requirements. Improper use can, however, present a risk of both personal injury and material damage.

To avoid the risk of accidents and damage to the appliance, please read these instructions carefully before installation and before using it for the first time. They contain important notes on the installation, safety, operation and care of the appliance.

Keep these instructions in a safe place and pass them on to any future user.

Correct application

▶ This appliance is intended for domestic use only for the cool storage of food and drink.
Any other usage is not supported by the manufacturer and could be dangerous. The manufacturer cannot be held liable for damage resulting from the incorrect or improper use of the appliance.

▶ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised whilst using it, or have been shown how to use it by a person responsible for their safety.

Safety with children

▶ This appliance is not a toy! To avoid the risk of injury, do not allow children to play with it or near it, or to play with the controls. Neither should they be allowed to swing on the door. Please supervise young children whilst you are using it. Older children may only use the appliance when its operation has been clearly explained to them and they are able to use it safely, recognising the dangers of misuse.

Technical safety

▶ Before setting up the appliance, check it for any externally visible damage. Do not install and use a damaged appliance.
A damaged appliance is dangerous.

▶ If the connection cable is faulty it must only be replaced by a service technician authorised by the manufacturer to protect the user from danger.

▶ This appliance contains the coolant Isobutane (R600a), a natural gas which is environmentally friendly. Although it is flammable, it does not damage the ozone layer and does not increase the greenhouse effect. The use of this coolant has, however, led to a slight increase in the noise level of the appliance. In addition to the noise of the compressor, you might be able to hear the coolant flowing around the system. This is unavoidable, but does not have any adverse effect on the performance of the appliance. Care must be taken during transportation and setting up of the appliance that no parts of the cooling system are damaged. Leaking coolant can damage the eyes.
In the event of any damage:
- avoid open flames and anything which creates a spark,
- disconnect from the mains,
- air the room in which the appliance is located for several minutes and
- contact the Service Department for advice.

▶ The more coolant there is in an appliance, the larger the room it should be installed in. In the event of a leakage, if the appliance is in a small room, there is the danger of combustible gases building up.
For every 8 g of coolant at least 1 m^3 of room space is required. The amount of coolant in the appliance is stated on the data plate inside the appliance.

▶ Safe operation of the appliance is only assured if it has been installed and connected in accordance with these operating and installation instructions.

▶ Before connecting the appliance, make sure that the connection data on the data plate (voltage and connected load) match the mains electricity supply.
This data must correspond in order to avoid the risk of damage to the appliance. Consult a qualified electrician if in any doubt.

▶ Do not connect the appliance to the mains electricity supply by a multi-socket unit or an extension lead. These do not guarantee the required safety of the appliance (e.g. danger of overheating).

▶ The electrical safety of this appliance can only be guaranteed when continuity is complete between it and an effective earthing system which complies with current local and national safety regulations. It is most important that this basic safety requirement is present and tested regularly, and where there is any doubt, the household wiring system should be inspected by a qualified electrician. The manufacturer cannot be held liable for damage or injury caused by the lack of or inadequacy of an effective earthing system (e.g. electric shock).

▶ Installation, maintenance and repairs may only be carried out by a suitably qualified and competent person in strict accordance with current national and local safety regulations. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorised work.

▶ While the appliance is under guarantee, repairs should only be undertaken by a service technician authorised by the manufacturer. Otherwise the guarantee will be invalidated.

▶ The appliance must be isolated from the electricity supply during installation, maintenance and repair work.
The appliance is only completely isolated from the electricity supply when:

– it has been switched off at the wall socket and the plug has been withdrawn, or
– the fuse from the fused spur connection unit has been withdrawn, or
– the mains fuse has been disconnected, or
– the screw-out fuse has been removed (in countries where this is applicable).

▶ Faulty components must only be replaced by genuine Miele original spare parts. The manufacturer can only guarantee the safety of the appliance when Miele replacement parts are used.

▶ This appliance may only be used in mobile installations such as ships if a risk assessment of the installation has been carried out by a suitably qualified engineer.

▶ In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the guarantee.

Correct use

▶ Never store explosive materials in the appliance or any products containing propellants (e.g. spray cans). Thermostats switching on may produce sparks which could present a fire hazard. Flammable compounds could explode.

▶ Do not operate any electrical equipment (e.g. an electric ice-cream maker) inside the appliance. Danger of sparking and explosion.

▶ If storing alcohol with a high percentage proof, make sure it is tightly closed and stored upright.
Danger of explosion.

▶ Observe the "use by" dates given on food to avoid the risk of food poisoning. Storage times will depend on several factors, including the freshness and quality of the food as well as the temperature at which it is stored. Follow the instructions given on food manufacturer's packaging on storage conditions required, as well as the "use by" date.

▶ Do not use sharp edged objects to

– remove frost and ice,

– separate food which has become frozen.

They will damage the evaporator, causing irreversible damage to the appliance.

▶ Do not use defrosting sprays or de-icers, as they might contain substances which could damage the plastic parts or which could cause a build-up of gases and pose a danger to health.

▶ Do not use any oils or grease on the door seal, as these will cause the seal to deteriorate and become porous with time.

▶ Do not store cooking oil in the refrigerator door. Traces of oil can cause stress cracks to occur in the plastic components in the door.

▶ Do not block the ventilation gaps in the appliance as this would impair the efficiency of the appliance, increase the electricity consumption and could cause damage to the appliance.

▶ The appliance is designed for use within certain climate ranges (ambient temperatures), and should not be used outside this range. The climate range for your appliance is stated on the data plate inside the appliance.
Installing it in a room with too low an ambient temperature, e.g. a garage, will lead to the appliance switching off for longer periods so that it cannot maintain the required temperature.

▶ Do not use a steam-cleaning appliance to clean this appliance. Steam could reach the electrical components and cause a short circuit.

Disposal of your old appliance

▶ Before disposing of an old appliance, first make the door latch or lock unusable.
This way you will prevent children from accidentally locking themselves in and endangering their lives.

▶ Be careful not to damage any part of the pipework whilst awaiting disposal, e.g. by

– puncturing the refrigerant channels in the evaporator.

– bending any pipework.

– scratching the surface coating.

Splashes of refrigerant can damage the eyes.

The manufacturer cannot be held liable for damage caused by non-compliance with these Warning and safety instructions.

How to save energy

	Normal energy consumption	Increased energy consumption
Installation site	In a ventilated room.	In an enclosed, unventilated room.
	Protected from direct sunlight.	In direct sunlight.
	Not situated near to a heat source (radiator, oven).	Situated near to a heat source (radiator, oven).
	Where the ideal ambient room temperature is approx. 20°C.	Where there is a high ambient room temperature.
Temperature setting with a thermostat which is approximate (set in stages).	With a medium setting of 2 to 3.	With a high setting: the lower the temperature in the compartment, the higher the energy consumption.
Temperature setting with a thermostat which is exact to the degree (digital display).	Cellar section 8 to 12°C	On appliances with winter setting, please make sure that the winter setting is switched off when the ambient temperature is warmer than 16 °C.
	Refrigerator section 4 to 5 °C	
	PerfectFresh zone just above 0 °C	
	Freezer section -18°C	
	Wine storage section 10 to 12 °C	
Use	Only open the doors when necessary and for as short a time as possible.	Frequent opening of the doors for long periods will cause a loss of coldness.
	Store food in an organised way.	If food is not stored in an organised way, searching for an item will mean the door is open for longer.
	Allow hot food and drinks to cool down before placing them in the appliance.	Placing hot food in the appliance will cause the compressor to run for a long time, as the appliance will have to work harder to lower the temperature.
	Store food covered or packaged.	The evaporation or condensation of liquids will cause a loss of coldness in the refrigerator.
	Place frozen food in the refrigerator to defrost.	
	Do not over-fill the appliance to allow air to circulate.	
Defrosting	Defrost the freezer compartment when a layer of ice 0.5 cm thick has built up.	A layer of ice hinders the cold from reaching the frozen food, and causes an increase in energy consumption.

Before using for the first time

The stainless steel door (and sides, depending on model) and the stainless steel trim to the interior shelves and the door shelves have a layer of protective foil to prevent damage during transportation.

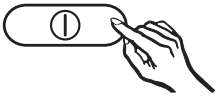
- Do not remove this foil until the appliance has been installed or built in.
- After removing the protective foil, treat the stainless steel door with the stainless steel conditioning agent supplied (also available from www.miele-shop.com).

Important: The stainless steel conditioner gives long lasting protection, and helps to prevent resoiling.

- Clean the inside of the appliance and the accessories with lukewarm water and a little washing-up liquid, and then dry with a soft cloth.
- Clean the sides of the appliances with a damp, clean cloth and then dry them with a soft cloth.

Important:
To ensure the correct functioning of the appliance, let it stand for between 1½ and 2 hours after transporting it to its final location before connecting it to the mains.

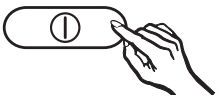
Switching on



- Press the On/Off button. The temperature display will light up.

The appliance begins to cool down, and the temperature required shows in the temperature display. The interior light will come on when the door is opened.

Switching off



- Press the On/Off button until the temperature display goes out.

The cooling system is switched off.

Switching off for longer periods of time

If the appliance is not going to be used for a longer period of time, e.g. whilst on holiday:

- switch the appliance off,
- switch off at the wall socket and withdraw the plug,
- clean the appliance out and
- leave the door ajar to air the appliance.

If, during a long absence, the appliance is switched off but not cleaned out and the door is left shut, there is a danger of mould and odours building up inside the appliance.

The correct temperature

It is very important to set the correct temperature for storing food in the appliance. Micro-organisms will cause food which is not stored at the correct temperature to deteriorate rapidly. Temperature influences the growth rate of these micro-organisms. Reducing the temperature reduces their growth rate.

The temperature in the appliance will rise:

– the more often the door is opened and the longer it is kept open,

– the more food that is stored in it,

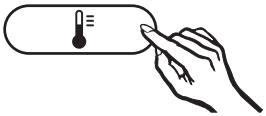
– the warmer the food is which is being put into it,

– the higher the ambient temperature surrounding the appliance.
The appliance is designed for use in specific ambient temperatures (climate ranges). Do not use in ambient temperatures for which it is not designed.

. . . in the refrigerator

We recommend a temperature of **5 °C** in the middle of the refrigerator.

Setting the temperature



■ Press the temperature button repeatedly until the indicator light for the temperature you want lights up in the display.

The first time you press the button the indicator light for the last temperature you set will flash in the display.

The temperature value will change up until the setting for 9 °C is reached. It will then drop back to the 1 °C setting.

Temperature display

The temperature display on the control panel always shows the **required** temperature.

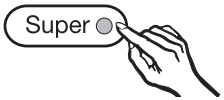
The temperature can be adjusted from: 1 °C to 9 °C

Super cool

The Super cool function can be used to rapidly reduce the temperature in the refrigerator section to its lowest setting (depending on the room temperature).

Switching on Super cool

Super cool is particularly recommended for faster chilling of large amounts of fresh food or drink.



■ Press the Super cool button. The Super cool indicator light will come on.

The appliance will then work at full power to lower the temperature.

Switching off Super cool

The Super cool function will switch itself off automatically after approx. 6 hours. The indicator light will go out and the appliance will run at normal power again.

To save energy, the Super cool function can be switched off once food and drinks are sufficiently chilled.

■ Press the Super cool button. The Super cool indicator light will go out, and the appliance will continue to operate at normal power.

Dynamic cooling

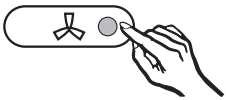
When the Dynamic cooling function is not switched on, the natural circulation of air in the appliance will cause different temperature zones in the refrigerator as the cold, heavy air will sink to the lowest section of the appliance. You should bear this in mind when placing food in the appliance (see "Using the refrigerator efficiently"). However, if you are placing a large amount of food in the refrigerator at any one time, it is a good idea to switch on Dynamic cooling. This way you can distribute the temperature inside the appliance to all areas more evenly so that all the food will be chilled to about the same degree.
The temperature is set as normal with the temperature control.

Dynamic cooling should also be selected when:

– the ambient temperature in the room is high (above approx. 30 °C), and

– the room humidity level is high.

Switching on Dynamic cooling



■ Press the Dynamic cooling button . The Dynamic cooling indicator light will come on.

Super cool and Dynamic cooling

Switching off Dynamic cooling

- Press the Dynamic cooling button . The Dynamic cooling indicator light will go out.

The fan automatically switches off when the door is open.

Different storage zones

Due to the natural circulation of the air in the appliance, there are different temperature zones in the refrigerator. Cold, heavy air sinks to the lowest section of the appliance. Make use of the different zones when placing food in the appliance.

This appliance has Dynamic cooling, which helps to keep an even temperature when the fan is running. When Dynamic cooling is switched on, the difference between the various zones is less pronounced.

Warmest area

The warmest area is in the top section of the door. Use this for storing butter and cheese.

Coldest area

The coldest area in a refrigerator is directly above the vegetable containers.

Use this for all delicate and highly perishable food, e.g.

– fish, meat, poultry,
– sausage products, ready meals,
– dishes or baked goods containing eggs or cream,
– fresh dough, cake mixtures, pizza or quiche dough,
– soft cheese and other dairy products,
– pre-packed vegetables and other fresh food with a label stating it should be kept at a temperature of approx. 4 °C.

Do not store explosive materials in the appliance or any products containing propellants (e.g. spray cans). Danger of explosion.

If storing alcohol with a high percentage proof, make sure it is tightly closed, and store upright.

Do not store cooking oil in the refrigerator door. Traces of oil can cause stress cracks to occur in the plastic components in the door.

Food must not touch the back wall of the refrigerator, as it may freeze to the back wall.

To allow air to circulate efficiently, do not pack food too closely together in the refrigerator. Do not cover the fan in the rear wall of the refrigerator, as this is essential for keeping the appliance cool.

Food which should not be stored in a refrigerator

Not all food is suitable for refrigeration, as some food is sensitive to cold. Cucumbers, for example, become glassy, aubergines bitter and potatoes sweet. Tomatoes and oranges lose their aroma, and the peel on citrus fruit hardens.

Food which should not be stored in a refrigerator includes:

– pineapple, pomegranate, bananas, avocado, mangos, papaya, passion fruit, citrus fruit

– fruit which is not yet ripe

– aubergines/egg plant, cucumbers, potatoes, peppers/capsicum, tomatoes, courgettes,

– some hard cheeses, e.g. Parmesan

When shopping for food

The freshness of food when first placed in the appliance is an important factor in determining how long it stays fresh, and how long it can be kept in the refrigerator. Time out of the refrigerator, e.g. during transportation, should be kept to a minimum. For example, do not allow food to stay in a hot car for too long. Once food has started to deteriorate, this process cannot be reversed. As little as two hours outside the refrigerator can cause food to start deteriorating.

Storing food correctly

Food should generally be stored covered or packaged. This will prevent food smells from affecting other foods, food from drying out, and also any cross-contamination of bacteria. The growth of bacteria, such as salmonella, can be avoided by setting the correct temperature and maintaining good standards of hygiene.

Fruit and vegetables

Fruit and vegetables may be stored loose in the vegetable containers. Please be aware that not all types of fruit and vegetables are suitable for storing in the same container. Aromas and flavours can transfer from one type of food to another (e.g. carrots absorb the smell and flavour of onions very easily). Some food also gives off a natural gas (ethylene) which speeds up the rate at which other food perishes.

– **Examples of fruit and vegetables which produce a large amount of this natural gas are:**

  Apples, apricots, pears, nectarines, peaches, plums, avocado, figs, blueberries, melons and beans.

– **Examples of fruit and vegetables which react strongly to the natural gases given off by other types of fruit and vegetables are:**

  Kiwis, broccoli, cauliflower, brussels sprouts, mangos, honeydew melons, apples, apricots, cucumbers, tomatoes, pears, nectarines and peaches.

  Example: Broccoli should not be stored with apples, as apples produce a large amount of natural gas to which broccoli is very sensitive. The result is a shorter than expected storage time for the broccoli.

Unpacked meat and vegetables

Unpackaged meat and vegetables should be stored separately. To avoid any microbiological cross-contamination, these foods may only be stored together if they are wrapped.

Protein rich foods

Please note that foods rich in protein deteriorate faster than others. Shellfish, for example, deteriorates faster than fish, and fish deteriorates faster than meat.

Meat

Meat should be stored unwrapped. (Undo wrappings slightly to leave meat loosely covered, and leave containers open). This permits air to circulate around the meat, allowing the surface to dry slightly, which helps prevent the growth of bacteria. To prevent the risk of bacterial cross-contamination and meat deteriorating, do not let one type of meat come into direct contact with another type.

Moving the shelves

The shelves can be adjusted according to the height of the food.

- Raise the shelf, and pull it forwards slightly until the notch at the side is in line with the shelf support. It can then be raised or lowered to the required level.

The raised edge at the back must face upwards to prevent food from touching the back of the appliance and freezing to it.

Stoppers prevent the shelves from being dislodged by mistake.

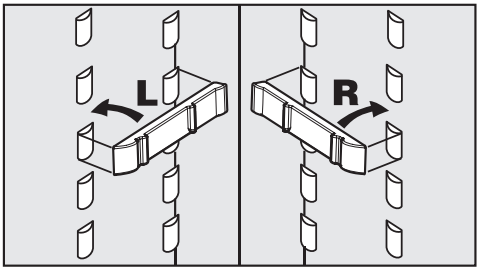
Split shelf

In order to accommodate tall items in the appliance, one of the shelves is divided. The front section can be pushed under the rear section.

- Push the rear half of the glass shelf up slightly from below.
- At the same time, pull the front half of the glass shelf forwards slightly and then push it carefully under the rear half.

To move the split shelf:

- Take both halves of the split glass shelf out,



- fit the two brackets onto the supports on either side at the required height,
- and push the glass shelves in one after the other.
  The shelf with the raised edge must be at the back.

Adjusting the door shelf/bottle shelf

- Push the door/bottle shelf upwards, then remove it by pulling it forwards.
- Replace the door/bottle shelf at the required position. Ensure that it is securely pushed back into position.

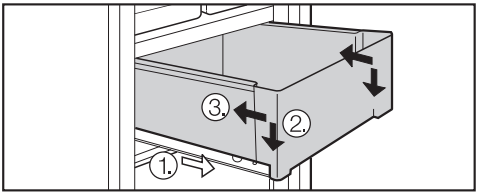
Fruit and vegetable containers

The fruit and vegetable containers are pushed in and out on telescopic runners, and can be completely removed if necessary.

- Pull the container right out and then lift it up and off.

Push the runners back in again to avoid injury or damage.

To replace a container,



- place it back on the fully extended runners ①. The front of the runners must be right up against the front of the container ②.
- Then push the container back in ③.

Automatic defrost

The refrigerator defrosts automatically.

Condensate and frost can build up on the back wall of the refrigerator whilst it is in use. You do not need to remove this, as it will defrost and evaporate automatically with the warmth generated by the appliance.

The condensate is drained away via a channel and drain hole into an evaporation system at the back of the appliance.

Ensure that the condensate channel and drain hole are kept clean and are never blocked so that condensate can flow away without hindrance.

- A range of Miele branded cleaning and conditioning agents is available from the Miele UK Spare Parts Department or via the internet at www.miele-shop.com.

Never use cleaning agents containing abrasive substances such as sand, soda, acids or chemical solvents.
"Non-abrasive" cleaning agents are also unsuitable as they can cause matt areas to appear.

The stainless steel door can be treated using a proprietary conditioning agent for stainless steel.
Make sure that no water can not get into the electronic unit or into the light.

Do not let water get into the drainage channel and drain hole when cleaning.

Do not use steam cleaning apparatus to clean the appliance. Steam could reach the electrical components and cause a short circuit.

The data plate located inside the appliance must not be removed.
It contains information which is required in the event of a service call.

Before cleaning

- Switch the appliance off, switch off at the socket and remove the plug.
- Take any food out of the appliance and store it in a cool place.
- Take out any removable parts, e.g. shelves, for cleaning.

Cleaning the outer casing, the interior and accessories

- Clean the appliance at least once a month using warm water and a little washing-up liquid.
- Accessories and shelves should all be handwashed only.
- Clean the condensate channel and drain hole frequently, so that condensate can drain away unhindered. Use a straw or similar to clear the drain if necessary.
- After cleaning, wipe the outer casing, the interior and accessories with a damp cloth and dry with a soft cloth. Leave the door open to air the appliance for a short while.
- The stainless steel door can be cleaned with a proprietary stainless steel cleaning agent, following the manufacturer's instructions.
- After cleaning, the stainless steel door should be treated with a conditioning agent for stainless steel.

It is important to do this every time the stainless steel door is cleaned, as the stainless steel conditioner protects the surface and helps prevent re-soiling.

Ventilation gaps

- The ventilation gaps should be cleaned regularly with a brush or vacuum cleaner. A build-up of dust will increase the energy consumption of the appliance.

Door seal

Do not use any oils or grease on the door seal as these will cause the seal to deteriorate and become porous over time.

The door seal should be cleaned regularly with clean water and then wiped dry with a soft cloth.

Metal grille at the back of the appliance

The metal grille at the back of the appliance (heat exchanger) should be dusted at least once a year. A build-up of dust will increase the energy consumption of the appliance.

When cleaning the grille, make sure that the pipework and other components do not get broken or damaged in any way.

After cleaning

- Replace all shelves and accessories in the appliance.
- Insert the plug in the socket and switch the appliance back on.
- Switch on the Super cool function for a while so that the appliance can cool down quickly.
- Place food back in the appliance and close the door.

Repairs to electrical appliances should only be carried out by a suitably qualified and competent person in strict accordance with current local and national safety regulations. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorised work.

What to do if . . .

. . . the appliance does not get cool.

- Check whether the appliance has been switched on. The temperature display must be lit up.
- Check that the plug is correctly inserted into the socket and switched on.
- Check that the fuse is not defective and that the mains fuse has not tripped. If it has, contact the Miele Service Department.

. . . the temperature in the refrigerator is too low.

- Set the required temperature.
- The Super cool function is still switched on. Super cool switches itself off after 6 hours.

. . . the compressor is switching in too frequently and for too long.

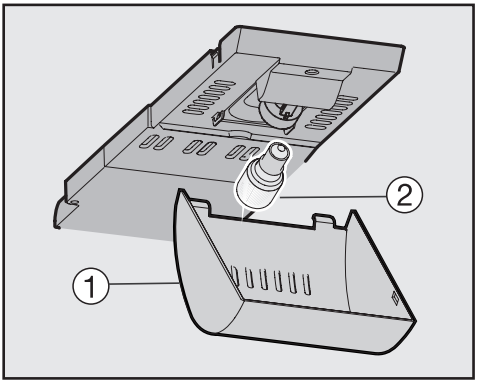
- Check whether the ventilation gaps have been covered over or become dusty.
- Check whether the metal grille (heat exchanger) at the back of the appliance has become too dusty.
- The appliance door is being opened frequently.
- Check that the door has been closed properly.

. . . the interior lighting in the refrigerator section is not working.

- Is the temperature display lit up?

If it is, the lamp is defective:

- Disconnect the appliance from the mains. Switch off at the wall and withdraw the plug from the socket, or disconnect the mains fuse or remove the screw-out fuse in countries where this is applicable.



- Grip the lamp cover ① at the front and unhook it at the back.

■ Unscrew the lamp ② and replace it with a new one.

Lamp specification:
220 - 240 V, E 14 fitting
See the old lamp for the Wattage required.

■ Replace the lamp cover ①.

. . . the floor of the refrigerator is wet.

The drain hole is blocked.

■ Clean the condensate channel and drain hole.

If you still cannot remedy the fault having followed these suggestions, please contact the Miele Service Department.

To prevent unnecessary loss of temperature it is advisable not to open the door while waiting for the appliance to be serviced.

Normal noises	What causes them
Brrrrr...	Humming noise made by the motor (compressor). This noise can get louder for brief periods when the motor is switching on.
Blubb, blubb....	A gurgling noise can be heard when coolant is circulating through the pipes.
Click....	Clicking sounds are made when the thermostat switches the motor on and off.
Sssrrrrr....	On multi-zone and frost-free appliances you can sometimes just hear the movement of air circulating inside the appliance.

Remember that the noise of the compressor and the coolant circulating in the system is unavoidable.

Noises that you can easily rectify	What causes them, and what can you do about them?
Rattling, vibrating	**The appliance is uneven:** Realign the appliance using a spirit level, by raising or lowering the screw feet underneath the appliance.
	The appliance is touching another appliance or piece of furniture: Move it away.
	Drawers, baskets or shelves are unstable or sticking: Check all removable items and refit them correctly.
	Are any bottles or containers unstable or knocking against each other? Separate them.
	The transport cable clips are hanging loose at the back of the appliance: Remove the clips.

After Sales / Guarantee

In the event of a fault which you cannot correct yourself, or if the appliance is under guarantee, please contact:

– your Miele Dealer

or

– Miele
(see back cover for contact details).

When contacting your Dealer or Miele, please quote the model and serial number of your appliance. This information is given on the data plate inside your appliance.

Please note that telephone calls may be monitored and recorded for training purposes.

N.B. A call-out charge will be applied for service visits where the problem could have been resolved as described in these instructions.

Guarantee

For information on the appliance guarantee specific to your country please contact Miele. See back cover for contact details.

In the U.K. your appliance is guaranteed for 2 years from the date of delivery. However, you must activate your cover by calling 0845 365 6640 or registering online at www.miele.co.uk.

Electrical connection U.K.

All electrical work should be carried out by a suitably qualified and competent person in strict accordance with current local and national safety regulations (BS 7671 in the UK).

The appliance is supplied with a mains cable and moulded plug ready for connection to an a.c. single phase 220-240 V 50 Hz supply.

Please ensure that the connection data quoted on the data plate match the household mains supply.

Connection should be made via a suitable switched socket which is easily accessible. For extra safety it is advisable to protect the appliance with a suitable residual current device (RCD).

Do not connect the appliance to the mains electricity supply by an extension lead. Extension leads do not guarantee the required safety of the appliance (e.g. danger of overheating).

This appliance must not be connected to the inverter of an autonomous power supply, e.g. a solar power system. When switching the appliance on, a surge in power could trigger the safety cut-out mechanism. This could damage the electronic unit.

The appliance must not be used with so-called energy saving devices. These reduce the energy supply to the appliance which could then become too warm. Using such devices could alter the specification of the product.

Non-rewireable plugs (BS 1363)

The fuse cover must be re-fitted when changing the fuse, and if the fuse cover is lost, the plug must not be used until a suitable replacement is obtained. The colour of the correct replacement cover is that of the coloured insert in the base of the plug, or the colour that is embossed in words in the base of the plug (as applicable to the design of the plug fitted).

Replacement fuses should be ASTA approved to BS 1362 and have the correct rating. Replacement fuses and fuse covers may be purchased from your local electrical supplier.

WARNING
THIS APPLIANCE MUST BE EARTHED

Do not place any appliance which gives off heat, such as a toaster or microwave oven, on top of this appliance, as this would increase the appliance's energy consumption.

Side-by-side installation

To avoid a build-up of condensation and resultant damage, refrigerators and freezers should not generally be installed side-by-side next to other such appliances.

However, some appliances have side-wall heating making them suitable for side-by-side installation with this refrigerator.

Your dealer will be able to advise you on which models are suitable.

- Follow the instructions for the other appliance on how to install the two appliances side-by-side.

Location

This appliance should be installed in a dry, well-ventilated room. It should not be installed where it is exposed to direct sunlight or directly adjacent to a heat-producing appliance such as an oven or a radiator. The room temperature should not go above or below the climate range for which the appliance is designed. The higher the ambient temperature of the room, the more energy the appliance requires to operate.

Important: tropical / humid environments
During periods of high humidity, some condensation may appear on outside surfaces of cooling appliances. This condensation will disappear when humidity levels drop. For prevention, it is advisable to install the appliance with sufficient ventilation in a dry and/or an air-conditioned room. Please ensure that doors are closing and sealing properly. Please ensure that the appliance is installed in accordance with these installation instructions and that the handle is fitted correctly. Should you require further assistance please contact your Miele customer service centre.

Climate range

The appliance is designed for use within certain climate ranges (ambient temperatures), and should not be used outside this range. The climate range of the appliance is stated on the data plate inside the appliance.

Climate range	Ambient room temperature
SN	+10 °C to +32 °C
N	+16 °C to +32 °C
ST	+16 °C to +38 °C
T	+16 °C to +43 °C
SN-ST	+10°C to +38°C
SN-T	+10°C to +43°C

Operating in a room which is too cold will cause the cooling system to switch off for too long, causing the internal temperature in the appliance to rise with the risk of food deteriorating and going off.

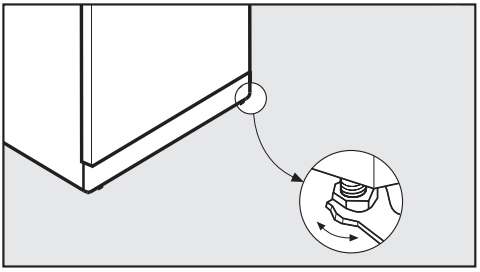
Ventilation

Air at the back of the appliance gets warm. To ensure sufficient ventilation, the air inlet and outlet must not be covered or blocked in any way. They should be dusted on a regular basis.

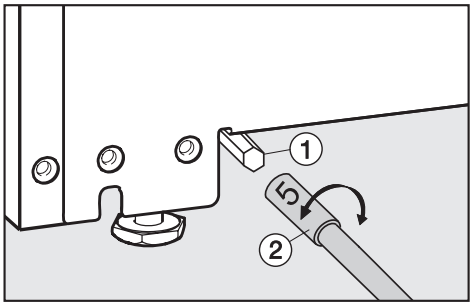
Installation

- Remove the cable clip from the back of the appliance.
- Check that all parts at the back of the appliance are unhindered. Carefully remove any hindrance.
- Carefully push the appliance into position with the back against the wall.

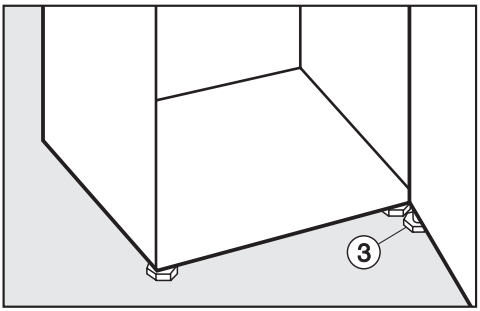
Aligning the appliance



- To align the appliance adjust the feet using the spanner supplied.

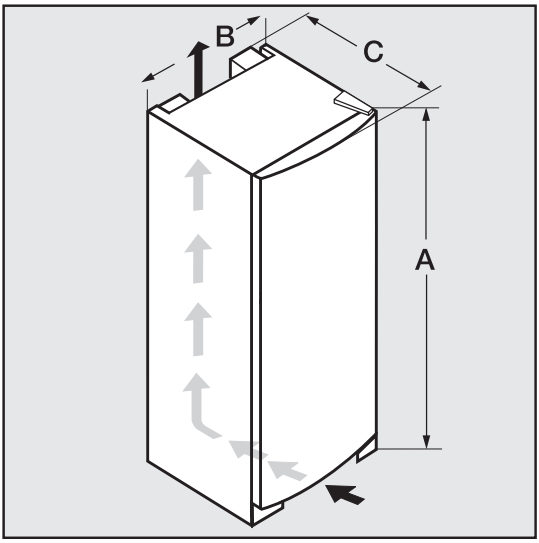


- If necessary, also align the rear adjusting device ① using socket wrench ②. Turn the adjusting device clockwise to raise the appliance at the back.



- Unscrew foot ③ from the hinge plate to support the appliance door.

Appliance dimensions



	A	B	C
K 12820 SD ed	1850 mm	600 mm	630 mm

The appliance is supplied right-hand hinged. If left hand door hinging is required, follow the instructions below.

To change the door hinging you will need the following tools:

– a cross-slotted screwdriver,

– a flat-bladed screwdriver,

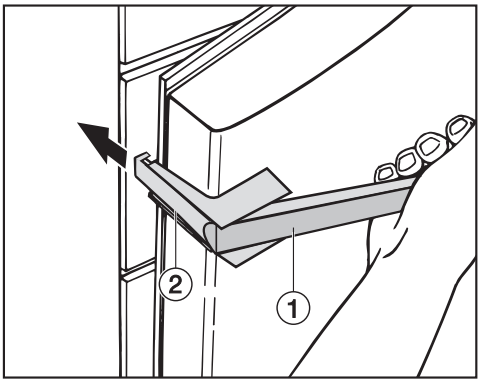
– a selection of Torx screwdrivers,

– a spanner.

Two people are needed for changing the door hinging.

Removing the door handle

■ Pull door handle ① towards you. Side section ② slides back.



■ Pull side section ② firmly back out of the guides on the mounting plate.

■ Undo the 4 screws (Torx 15) in the mounting plate, and remove the handle.

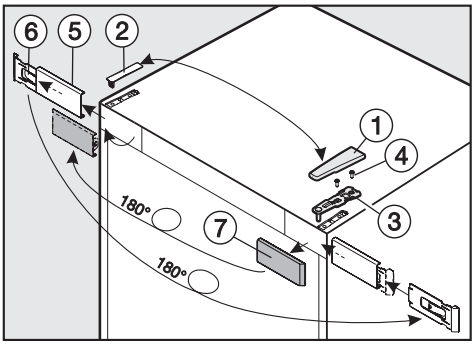
■ Remove the cover caps from the opposite side, and fit them into the empty holes.

Changing the door hinging

Changing over the door

Make sure the door shelves are empty!

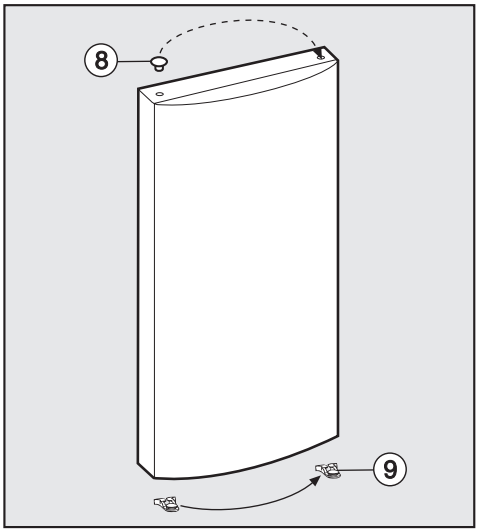
- Close the appliance door.



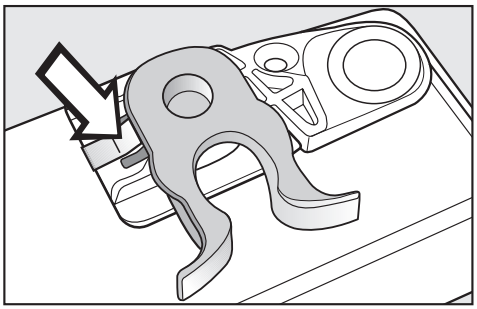
- Remove cover ① by sliding it forwards from the back and then lifting it off.
- Remove cover ② by pulling it upwards.

Caution. The door is not secure as soon as the hinge plate is removed.

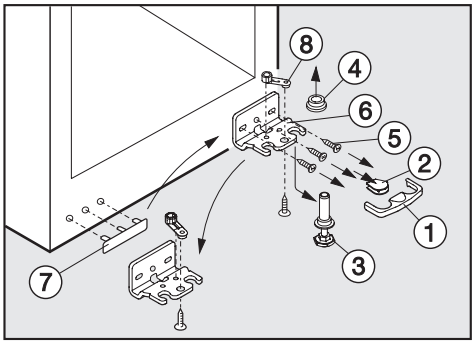
- Loosen screws ④ in upper hinge plate ③ and pull it upwards and off.
- Carefully lift the door off and place it to one side.
- Carefully release cover ⑤ from above using a screwdriver and then take it off together with retaining plate ⑥.
- Then separate retaining plate ⑥ from cover ⑤, by pushing it slightly to the left. Then pull the cover forwards and off.
- Rotate retaining plate ⑥ by 180°.
- Then fit cover ⑤ from the front over retaining plate ⑥, and slide it over to the right. The writing must be visible.
- Remove cover ⑦, then rotate it by 180° and fit it on the opposite side.
- Then fit cover ⑤ together with retaining plate ⑥ on the opposite side.



- Remove cap ⑧ from the bearing bush in the door and refit on the opposite side.

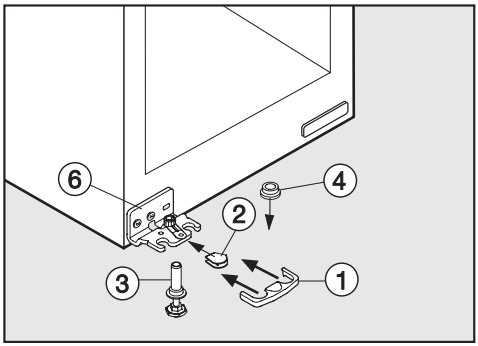


- Using a screwdriver, remove spring clamp ⑨ from underneath the door and fit it on the opposite side.

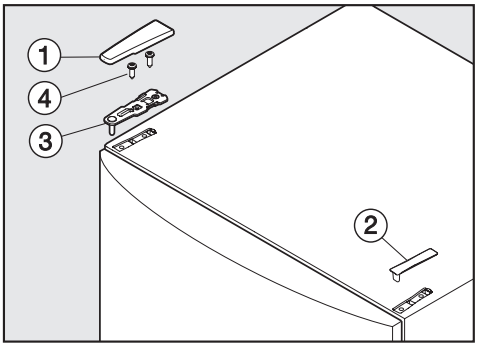


- Remove cover ① by pulling it forwards.
- Pull cover ② off.
- Screw the foot into hinge pin ③ as far as it will go.
- With the help of another person, carefully tilt the appliance backwards and pull hinge pin ③ downwards and then forwards and out. Take care not to lose hinge bush ④.
- Undo screws ⑤ and take hinge plate ⑥ off.
- Remove cover ⑦ and fit it into the holes on the opposite side.
- Undo the screw of hinge part ⑧ on hinge plate ⑥ slightly. Turn it into the hole opposite in hinge plate ⑥ and tighten up the screw.

Changing the door hinging



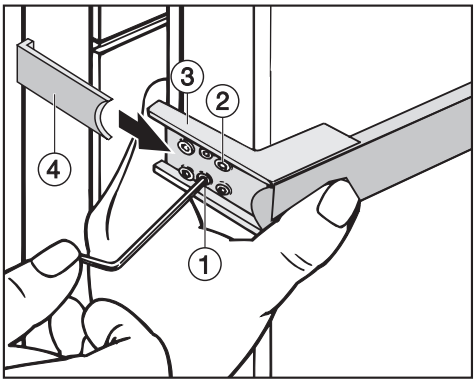
- Screw hinge plate ⑥ into position on the opposite side using the two **outer** long slots only. Do not use the middle hole because you will not be able to align the door later on.
- Refit cover ②.
- With the help of another person, carefully tip the appliance back and refit hinge pin ③ from below into hinge plate ⑥ on the left hand side. The notch at the bottom of the hinge pin should face forwards.
- Replace hinge bush ④ on hinge pin ③.
- Refit cover ① on the left making sure that it clicks into position at both sides.
- Place the door onto hinge pin ③ from above.
- Close the appliance door.



- Fit hinge plate ③ onto the opposite side and secure it with screws ④. If necessary drill pilot holes for the screws or use a battery operated screwdriver.
- Fit covers ① and ② to their opposite sides.
- Align the door with the appliance housing using the long slots in the lower hinge plate. Then tighten the screws.

Refitting the handle

Please make sure you follow the instructions below carefully when you refit the handle. The door seal will be damaged if the handle is fitted incorrectly.



- Loosely attach the handle to the opposite side of the door with the two front screws ②.

Mounting plate ③ must be positioned on the side of the door so that when the door is **closed** it is flush with the side of the appliance.
If this is not the case,

- tighten both grub screws ① with an allen key until mounting plate ③ lines up correctly.
- Then tighten all 4 fixing screws ②.
- Slide the side section of the handle ④ into the guides on the mounting plate until it clicks into place.

It is important to check that the side section of the handle ④ does not come into contact with the door seal when opening the door, as this would damage the door seal permanently.

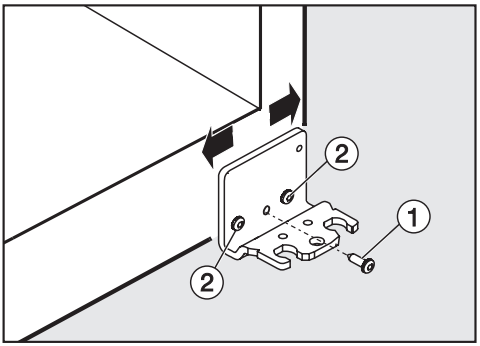
If, after you have refitted the handle, you find that the side section does touch the door seal when the door is opened:

- Realign mounting plate ③ with grub screws ① until the mounting plate and the side section of the handle ④ are at the correct angle and the side section does not touch the door seal when the door is opened.

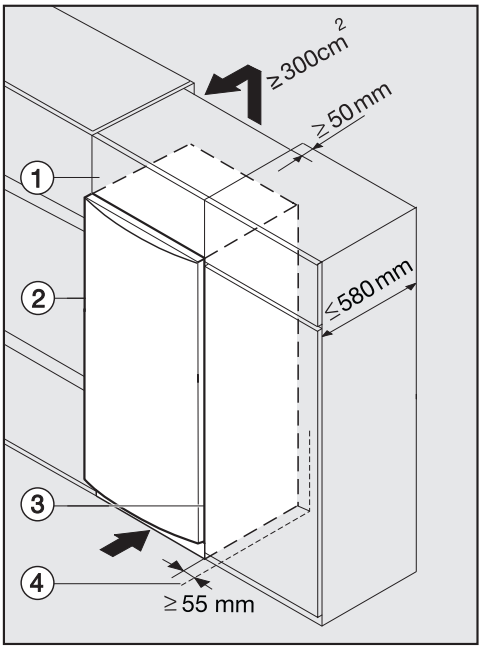
Aligning the appliance

The appliance door can be aligned to the housing using the outer long slots in the lower hinge plate.

In the following illustration the door is not shown in the closed position to make it easier to see what you have to do.



- Remove centre screw ① from the hinge plate.
- Slightly loosen both outer screws ②.
- Align the door by sliding the hinge plate to the left or right.
- Then tighten screws ② again. Screw ① does not need to be used again.



① Top box

② Appliance

③ Housing unit

④ Wall

The appliance can be installed in a kitchen run. To match the height of the rest of the kitchen, the appliance can be fitted with a suitable top box ①.

A ventilation gap of at least 50 mm depth must be allowed for behind the appliance across the entire width of the top box for air to circulate.
The cross section of the air outlet under the room ceiling must be at least 300 cm^2 to ensure that air can circulate without hindrance. Otherwise the appliance has to work harder, resulting in an increase in electricity consumption.

The air inlet and outlet must not be covered or blocked in any way. They should be dusted on a regular basis.

When built into a kitchen run (max. depth 580 mm) the appliance can be installed directly next to a kitchen furniture housing unit. The appliance door will protrude in front of furniture fronts at the sides by 34 mm and by 55 mm in the middle of the door. This enables the doors to be opened and shut without being obstructed.

When installed **next to a wall** ④ a distance of approx. 55 mm must be maintained on the hinge side between the wall ④ and the appliance ②, so that the doors and the handles have sufficient space for opening.

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